

## CLAIMS

What is claimed is:

1. An apparatus, comprising:  
  
a transmit/receive switch adapted to leak sufficient energy to a receiver during transmission such that the receiver is able to correctly demodulate a transmitted signal.
2. The apparatus according to Claim 1, wherein the transmit/receive switch is further adapted to prevent an amount of energy leaked to said receiver from being sufficient to overload the receiver.
3. The apparatus according to Claim 1, wherein the transmit/receive switch comprises:  
  
a switch selectively coupled to a transmit output and a receive input, said switch comprising a parasitic impedance between said transmit output and said receive input.
4. The apparatus according to Claim 3, wherein the transmit/receive switch further comprises:  
  
another leakage path between said transmit output and said receive input.
5. The apparatus according to Claim 4, wherein said another leakage path comprises an impedance.

6. The apparatus according to Claim 3, wherein said switch comprises at least one of a manual switch, an electromechanical relay, a transistor switch, and a PIN diode.

7. A system, comprising:

a transmitter;

a receiver; and

a transmit/receive switch, coupled to said transmitter and to said receiver and adapted to leak sufficient energy to said receiver during transmission by said transmitter such that said receiver is able to correctly demodulate a signal transmitted by said transmitter.

8. The system according to Claim 7, wherein said transmit/receive switch is further adapted to prevent an amount of energy leaked to said receiver from being sufficient to overload said receiver.

9. The system according to Claim 7, further comprising:

an antenna used by both said transmitter and said receiver and coupled to said transmit/receive switch.

10. The system according to Claim 7, wherein said transmit/receive switch comprises:

a switch selectively coupled to said transmitter and said receiver, said switch comprising a parasitic impedance across said switch between said transmitter and said receiver.

11. The system according to Claim 10, wherein said transmit/receive switch further comprises:

another leakage path across said switch between said transmitter and said receiver.

12. The system according to Claim 11, wherein said another leakage path comprises an impedance.

13. The system according to Claim 12, wherein said impedance is greater than an input impedance of said receiver.

14. The system according to Claim 10, wherein said switch comprises at least one of a manual switch, an electromechanical relay, a transistor switch, and a PIN diode.

15. The system according to Claim 7, wherein a signal demodulated by said receiver during transmission by said transmitter is fed back to said transmitter.

16. The system according to Claim 15, wherein said transmitter is adapted to use said signal demodulated by said receiver during transmission by said transmitter to perform at least one of linearization and self-diagnostics.

17. A method, comprising:

providing a transmit/receive switch adapted to leak sufficient energy to a receiver during transmission such that the receiver is able to correctly demodulate a transmitted signal.

18. The method according to Claim 17, wherein the transmit/receive switch is further adapted to prevent an amount of energy leaked to said receiver from being sufficient to overload the receiver.

19. The method according to Claim 17, further comprising:  
providing a transmitter adapted to be coupled to said transmit/receive switch; and  
providing a receiver adapted to be coupled to said transmit/receive switch.